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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/061,727	0/061,727 10/26/2001		John E. Sims	3151-A	9375	
22932	7590	02/24/2004		EXAM	EXAMINER	
		ORATION		LI, RUD	CIANG	
	LAW DEPARTMENT 1201 AMGEN COURT WEST				PAPER NUMBER	
SEATTLE, WA 98119				1646		
			DATE MAILED: 02/24/2004			

Please find below and/or attached an Office communication concerning this application or proceeding.

	Anntication No.	Applicant(s)					
	Application No.	Applicant(s)					
Office Action Summary	10/061,727	SIMS ET AL.					
Onice Action Summary	Examiner	Art Unit					
The MAIL INC DATE of this communication con	Ruixiang Li	1646 .					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status 1) Responsive to communication(s) filed on 28 N	ovember 2003						
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3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
4) Claim(s) 1-14 is/are pending in the application.							
4a) Of the above claim(s) 3, 4, 8, and 12-14 is/are withdrawn from consideration.							
5)⊠ Claim(s) <u>1,2 and 7</u> is/are allowed.							
6)⊠ Claim(s) <u>5.6.9-11</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:	, ,						
1.☐ Certified copies of the priority documents	have been received.						
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 							
Attachment(s) ·							
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 11	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)					

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DETAILED ACTION

I. Status of Application, Amendments, and/or Claims

The amendment filed on November 28, 2003 has been entered in full. Claims 2, 5, and 9 have been amended. Claims 1-14 are pending. Claims 1, 2, 5(in part), 6 (in part), 7, 9 (in part), 10(in part), and 11 are under consideration.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office Action.

II. Information Disclosure Statement

The Information Disclosure Statement filed on November 28, 2003 has been considered by the Examiner and a fee of \$180 as set forth in \$1.17(p) has been charged to Deposit Account No. 09-0089.

III. Withdrawn Objections and/or Rejections

The rejection of claim 9 under 35 U.S.C. §101, as set forth at page 3 of the previous office action (Paper No. 8, May 29, 2003) has been withdrawn in view of Applicants' argument.

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The rejection of claims 5, 6, 9, and 10 under 35 U.S.C. §112, 1st paragraph, as set forth at pages 3-6 of the previous office action (Paper No. 8, May 29, 2003) has been withdrawn in view of Applicants' amendment to the claims.

The rejection of claim 5 under 35 U.S.C. §112, 2nd paragraph, as set forth at pages 9-10 of the previous office action (Paper No. 8, May 29, 2003) has been withdrawn in view of Applicants' argument.

The objection of claim 2 for minor informalities, as set forth at page 11 of the previous office action (Paper No. 8, May 29, 2003) has been withdrawn in view of Applicants' amendment to the claim.

IV. Claim Rejections under 35 USC § 112, 1st paragraph (Description)

The rejection of claims 5, 6, 9, and 10 under 35 U.S.C. §112, 1st paragraph for Description, as set forth at pages 6-8 of the previous Office Action (Paper No. 8, May 29, 2003), is maintained.

Applicants' amendment filed on November 28, 2003 has resolved all the issues except the problem related to claim 5, part h), which recites an isolated nucleic acid molecules that hybridizes to either strand of a denatured, double-stranded DNA comprising the polypeptide of any one of e-g under conditions of moderate stringency; wherein the isolated nucleic acid encodes a polypeptide that interacts with an IL-1R signal transduction factor.

Applicants argue that claim 5, part h) requires that the variant interact with an IL-1R signal transduction factor. Those skilled in the art know that in order to preserve the Application/Control Number: 10/061,727

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functional ability to interact with these factors, the number of variants is in fact small (bottom of page 7 to top of page 8 of Applicants' response). Applicants further submit that Example 9 of the PTO's Written Description Guidelines supports this position (3rd paragraph of page 8 of Applicants' response).

Applicants' argument has been fully considered, but is not deemed to be persuasive for the following reasons. First, the amended claim, while reciting a functional limitation, still encompasses a genus of nucleic acid that may be structurally unrelated, due to the hybridization conditions of moderate stringency. The claims do not require that the nucleic acid possess any particular conserved structure or other distinguishing feature. The specification fails to disclose the structural feature or correlation of structure to function of the claimed genus of the nucleic acid, or a representative number of species of the claimed genus. It is noted that a definition by function does not suffice to define the genus because it is only an indication of what the genus does, rather than what it is.

Secondly, the PTO's Written Description Guidelines do not support Applicants' position because Example 9 of the PTO's Written Description Guidelines refers to an isolated nucleic acid that hybridizes under highly stringent conditions, not *under conditions of moderate stringency* which an artisan would expect to yield structurally unrelated nucleic acid molecules and to produce substantial variations among species encompassed within the scope of the claims.

V. Claim Rejections under 35 USC § 112, 2nd paragraph

(i). The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

(ii). Claims 10 and 11 are rejected under 35 U.S.C. 112, second paragraph, as being

indefinite for failing to particularly point out and distinctly claim the subject matter

which applicant regards as the invention.

Claims 10 and 11 are indefinite because it is unclear what protein is to be

made by the process; the claims, as written, read on any proteins produced by the

cell.

It is noted that this is a new ground rejection.

VI. Claim Rejections under 35 USC § 102

(i) The rejection of claims 5, 6, 9, and 10 under 35 U.S.C. 102(b) as being

anticipated by Saeki et al. (Database Swiss-Prot, Accession No. P35413, November 1,

1997), set forth at pages 10-11 of the previous office action (Paper No. 8, May 29,

2003), is maintained.

Applicants argue that Applicants amended claim 5, part h) to reference the

polynucleotides of parts e)-q). In doing so, only the unique novel portion of the splice

variant forms the basis for the hybridization polynucleotides.

Applicants' argument has been fully considered, but is not deemed to be

persuasive for the following reasons. Claim 5, part e), recites a polynucleotide that

encodes a polypeptide comprising amino acid residues 449-687 of SEQ ID NO: 2 and

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thus encompasses the polynucleotide set forth in SEQ ID NO: 1. Huang et al. teach a cDNA, which encodes a interleukin 1 receptor accessory protein (that interacts with an IL-1R signal transduction factor) comprising the amino acid residues 1 to 448 of SEQ ID NO: 2 and shares 51.7% sequence identity with SEQ ID NO: 1. Thus, this cDNA would hybridize to the polynucleotide of SEQ ID NO: 1 under conditions of moderate stringency as recited in the claim 5, part h), meeting the limitations of claim 5, part h). Claims 6, 9, and 10 depend from, either directly or indirectly, from claim 5, h).

(ii) The rejection of claims 5, 6, 9, and 10 under 35 U.S.C. 102(e) as being anticipated by Cao (US Patent No. 6,280,955), set forth at page 11 of the previous office action (Paper No. 8, May 29, 2003) remains. It is noted that Applicants are correct in that this rejection is a 102(e) rejection, not a 102(b) rejection.

Applicants argue that in view of the amendment to claim 5, part h) to reference the polynucleotides of parts e)-g), the rejection has been overcome.

Applicants' argument has been fully considered, but is not deemed to be persuasive for the following reasons. Claim 5, part e), recites a polynucleotide that encodes a polypeptide comprising amino acid residues 449-687 of SEQ ID NO: 2 and thus encompasses the polynucleotide set forth in SEQ ID NO: 1. Cao teach a cDNA, which encodes a interleukin 1 receptor accessory protein (that interacts with an IL-1R signal transduction factor) comprising the amino acid residues 1 to 448 of SEQ ID NO: 2 and shares 51.7% sequence identity with SEQ ID NO: 1. Thus, this cDNA would hybridize to the polynucleotide of SEQ ID NO: 1 under conditions of moderate

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Claims 6, 9, and 10 depend from, either directly or indirectly, from claim 5, h).

VII. Claim Objections

The objection of claims 5, 6, 9, and 10 for reciting unelected subject matter

related to SEQ ID NO: 4 remains. It is noted that Applicants have not amended claim 5

to remove the unelected subject matter. Appropriate correction is required.

VIII. Conclusion

Claims 1, 2, and 7 are allowed.

THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded

of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ruixiang Li whose telephone number is (571) 272-0875. The examiner can normally be reached on Monday-Friday, 8:30 am-5:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yvonne Eyler, can be reached on (571) 272-0871.

Communications via Internet e-mail regarding this application, other than those under 35 U.S.C. 132 or which otherwise require a signature, may be used by the applicant and should be addressed to [yvonne.eyler@uspto.gov].

All Internet e-mail communications will be made of record in the application file. PTO employees do not engage in Internet communications where there exists a possibility that sensitive information could be identified or exchanged unless the record includes a properly signed express waiver of the confidentiality requirements of 35 U.S.C. 122. This is more clearly set forth in the Interim Internet Usage Policy published in the Official Gazette of the Patent and Trademark on February 25, 1997 at 1195 OG 89.

Ruixiang Li Examiner February 17, 2004

LORRAINE SPECTOR PRIMARY EXAMINER

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